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TITLE

SILICA COATING LIQUID FOR FORMING LOW DIELECTRIC CONSTANT AND SILICA

COAT SUBSTRATE WITH LOW DIELECTRIC CONSTANT

ABSTRACT :

PROBLEM TO BE SOLVED: To provide a silica coating liquid for forming low-dielectric constant with a dielectric constant as small as ≤2.5, having low moisture absorbability

and high mechanical strength.

SOLUTION: This coating liquid contains (A) at least one silicon compound selected from the group consisting of alkoxysilanes of the general formula (I): XnSi(OR)4-n and silane halides of the general formula (II): XnStX'4-n and (B) an organic template material of the general formula (III): [R1R2R3R4N]+Y- (in these formulas, X is H, F, a 1-8C alkyl, fluorine-substituted alkyl, aryl or vinyl; R is H, a 1-BC alkyl, aryl or vinyl; X' is a halogen atom; n is an integer of 0-3; R1 is a 1-20C hydrocarbon group; R2 to R4 are each H or a 1-20C hydrocarbon group and may be the same as R1; and Y is a halogen atom or OH).

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